

NAME _____

Module 13 Perimeter, Area, and Volume
Lesson 6 Surface Area: Pyramids and Cones

Lesson Objectives

- Derive and use formulas for surface area of pyramids and cones.
- Use square units to find the surface area of pyramids and cones.

Subtopic 1 Surface Area of Pyramid

The _____ of a regular pyramid is the height of a lateral face.

Surface Area of a Pyramid

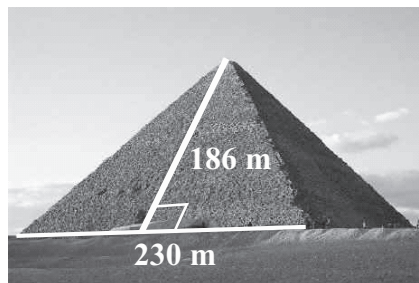
$$L = \underline{\hspace{2cm}}$$

$$SA = \underline{\hspace{2cm}}$$

- 1** Find the total amount of material needed to construct the tent.



- 2 Find the approximate lateral area of the Great Pyramid at Giza, Egypt. It is a square pyramid with an approximate base length of 230 meters and a slant height of 186 meters.



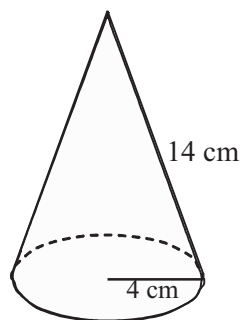
Subtopic 2 Surface Area of Cone

The slant height of a cone is the distance from the _____ to the _____ of the base.

Surface Area of a _____

$SA =$ _____

- 3 Find the surface area of the cone.



NAME _____

Module 13 Perimeter, Area, and Volume
Lesson 6 Surface Area: Pyramids and Cones



The antenna on a sailboat provides a “cone of protection” from lightning around the boat. This cone of protection has a diameter of 72 feet and a slant height of 60 feet. Find the surface area of the cone of protection. Round the answer to the nearest foot.

